

## UNITRONIC® DeviceNet FD THICK+THIN

High flexible DeviceNet Buscable based on the CAN technology

DeviceNet connects sensors, drives and PLCs. Based on technology. UL/CSA-approved. Temperature range from -40°C bis +80°C



DeviceNet



Supplementary automation components from Lapp



Mechanical and plant engineering



Flame-retardant



Halogen-free



Power chain



UV-resistant

### Application range

For highly flexible applications

DeviceNet™ connects industrial devices e.g. limit switches, photoelectric switches, valve islands, motor starters, drives, PLCs, etc.

### Product features

Based on proven CAN (Controller Area Network) technology.

Permissible cable lengths vary with the data rate and the cable thickness

Refer to data sheet for more details

PUR (P) Version: Halogene free

PVC (Y) Version: Flame retardant (UL FT4)

UV-resistant (but colour may change after some time)

Last Update (13.02.2021)

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Product Management [www.lappkabel.de](http://www.lappkabel.de)

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02\_03.16

## UNITRONIC® DeviceNet FD THICK+THIN

### Norm references / Approvals

PUR: UL/CSA-certified (CMX)

PVC: UL/CSA CMG 75°C FT4 Sun Res Oil Res, at 2170346 also PLTC

### Product Make-up

Core insulation: PE

Outer sheath of Polyurethan (PUR) or Polyvinylchlorid (PVC)

### Technical Data

|                           |                                                                          |
|---------------------------|--------------------------------------------------------------------------|
| Classification ETIM 5:    | ETIM 5.0 Class-ID: EC000830<br>ETIM 5.0 Class-Description: Data cable    |
| Classification ETIM 6:    | ETIM 6.0 Class-ID: EC000830<br>ETIM 6.0 Class-Description: Data cable    |
| Core identification code: | Data pair: light blue + white<br>Power supply: red + black               |
| Mutual capacitance:       | (800 Hz): max. 39.8 nF/km                                                |
| Peak operating voltage:   | 300 V (not for power applications)                                       |
| Conductor resistance:     | Thick (loop): max. 45 ohm/km<br>Thin (loop): max. 180 ohm/km             |
| Minimum bending radius:   | Fixed installation: 7.5 x outer diameter<br>Flexing: 15 x outer diameter |
| Test voltage:             | Core/core: 2000 V                                                        |
| Characteristic impedance: | 120 ohm                                                                  |
| Temperature range:        | PUR: -40°C to +80°C<br>PVC: -10°C to +80°C                               |

### Note

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

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Prices are net prices without VAT and surcharges. Sale to business customers only.

**UNITRONIC® DeviceNet FD THICK+THIN**

| Article number | Article designation          | Number of pairs and AWG size | Outer diameter [mm] | Copper index [kg/km] | Weight [kg/km] |
|----------------|------------------------------|------------------------------|---------------------|----------------------|----------------|
| PUR            |                              |                              |                     |                      |                |
| 2170344        | UNITRONIC® BUS DN THICK FD P | 1x2xAWG18 + 1x2xAWG15        | 12.2                | 94                   | 184            |
| 2170345        | UNITRONIC® BUS DN THIN FD P  | 1x2xAWG24 + 1x2xAWG22        | 6.9                 | 33.4                 | 67.7           |
| PVC            |                              |                              |                     |                      |                |
| 2170346        | UNITRONIC® BUS DN THICK FD Y | 1x2xAWG18 + 1x2xAWG15        | 12.2                | 94                   | 195            |
| 2170347        | UNITRONIC® BUS DN THIN FD Y  | 1x2xAWG24 + 1x 2xAWG22       | 6.9                 | 33.4                 | 69.8           |

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